UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4559

ARIZONA	
	Land District.
FIELD NOTE	S
Of The Survey Of The Mining	Claim Of
KENNECOTT COPPER CORP	
Known As The	
LAVA NO. 1 LODE	
MINERAL CREEK	Mining District
PINAL County,	ARIZONA
ction 12 Township 3.S	, Range 13 E
Surveyed under order dated March 20	, 19 <u>61</u>
by OSC	AR T. SMITH Mineral Surveyor.
Claim locatedDecember 21	, 19.55
Survey commenced August 7	, 19.61
Survey completed August 11	1961
Address of claimant Ray, Arizon	na
DATES OF AMENDED LOCAT	IONS
August 6, 1959	

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This survey was made with a Keuffel & Esser Transit No. 131481, with horizontal limb 5 ins. diam., having two double opposite verniers, and full vertical circle 5 ins. diam. having one double vernier; the verniers read to one minute of arc; the eyepiece is equipped with a colored shade set in the dust shutter for making direct observations upon the sun. The instrument was in good condition at the time of the survey and all adjustments were in good order.

All azimuths in this record were determined by the method of deflection angles referred to the meridian

determined by the following observations:

August 9, 1961, at cor. No. 2 of the Lava No. 1 lode, in latitude 33°10'26" N., and longitude 110°58'55" W., I make a series of six altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from a reference point about 400 ft., Southwest to the sun.

Mean time of observation, 105th meridian standard time =4h13m40s P.M.

Declination of sun at mean time of observation

=15°42'31" N.

116.83 Intersect

Mean observed vertical angle to sun's center

=30°55'12"

Mean horizontal angle from reference point to sun's center =106°45'50" S.W.

The bearing to reference point =S. 17°35'43" E.

The lines were measured with a Keuffel & Esser steel tape 500 ft. in length graduated every foot for 500 ft., and steel tape 10 ft. in length, graduated to feet, tenths and hundredths; both tapes were compared with a standard 100 ft. invar steel tape at the time of beginning the survey, and found correct.

All lines and connections of this survey were run by direct methods.

The magnetic declination observed at each corner of the survey gave a uniform value of 14°30' E.

SURVEY NO. 4559

Feet

LAVA NO. 1.LODE .

At cor. No. 1 of the Lava No. 1 lode

Set an iron pipe 3 ft. long, 1-1/2 in. diam., 18 ins. in the ground, with brass cap mkd. L1-1-4559; from which

The 1/4 sec. cor. of secs. 11 and 12, T. 3 S., R. 13 E., G. & S. R. M., bears N. 18°13'30" W., 856.25 ft. dist., an iron post 1 in. diam., with brass cap, 10 ins. above ground, firmly set and properly mkd. and witnessed as described in the official record.

Chains	This change are some actions a feet of the				
Feet	Cor. No. 2 Sur. No. 2465 Queen Lil lode bears S. 33°21'20" E., 177.78 ft. dist.				
making	No local bearing objects or bearing trees available.				
ont was	Thence N. 83°08' E. book mi				
49.87	Intersect line 1-2 and 1-2 Sur. No. 2465 Black Warrior and Queen Lil lodes at a point from which cors. Nos. 1 and 2 bears S. 17°20'30" E., 736.80 ft. dist. and 161.82 ft. dist.				
950.00	Cor. No. 2.do ebutita was of series a same				
a Laverer	Set an iron pipe 3 ft. long, 1-1/2 in. diam., 18 ins. in				
b cris	the, ground with brass cap mkd L1-2-4559; from which				
Jale	Cor. No. 4 Sur. No. 2572 A Sleeper lode, bears S. 2°42'30" E., 162.16 ft. dist.				
.м.	No local bearing objects or bearing trees available.				
.16	Thence S. 17°36' E.				
116.83	from which cor. No. 4 bears S. 28°42' W., 57.60 ft. dist.				
	Intersect line 2-3 Sur. No. 2465 Queen Lil lode at a point from which cor. No. 2 bears S. 83°18' W., 901.37 ft. dist.				
500 ft	Lode line; discovery shaft bears S. 83°08' W., 650.00 ft.				
400.00	and steel tage 10 It. in Length, anadyated to tentes and numeredths; both tages .6 .00 .000 co				
f be-	Set an iron pipe 3 ft. long, 1-1/2 in. diam., 18 ins. in the ground, with brass cap mkd. L1-3-4559; from which				
lo cen	Cor. Nos. 3 and 3 Sur. No. 2572A Sleeper and Copper Nugget lodes bears N. 71°04'20" W., 212.38 ft. dist.				
,,	Thence S. 83°08' W.				
205.47	Intersect line 3-4 Sur. No. 2572A Copper Nugget lode at a point from which cor. No. 3 bears N. 1°54' E., 93.51 ft. dist.				
258.32	Intersect line 2-3 Sur. No. 2572A Sleeper lode at a point from which cor. No. 3 bears N. 29°07' E., 114.21 ft. dist.				
electrology and	Intersect line 4-5 Sur. No. 2572A Sweepstake lode at a				
	point from which cor. No. 4 bears N. 45°00'30" W., 187.99 ft. dist.				
bos J	956.25 ft. dist., an iron post 1 in. diam brees cap, 10 ins. showe ground, firely st properly mkd. and witnessed as described : official record.				

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Chains:

EXPENDITURES

The improvements and the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or its grantors are as follows:

The discovery shaft of the Lava No. 1 lode, the center of which being the discovery point, is on the center line 300 ft. from the center of line 4-1; 8x8 ft., No. 1 6 ft. deep. Value, \$192.00

A diamond drill hole, the center of which bears N. No. 2 14°30' E., 180 ft. from cor. No. 4 Lava No. 1 lode; 655 ft. deep.

No local bearing on

Value, \$3,835.00

OTHER IMPROVEMENTS

None.

00.008

1.571

442

.351 932 88€ ..

838.

828

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 2465 Black Warrior lode: Cors. Nos. 1 and 2 are rocks firmly set and properly mkd. Line 1-2 was found to be N. 17°20'30" W., 1041.15 ft. instead of N. 17°40' W., 1076.00 ft. as approved.

Sur. No. 2572A Sweepstake lode: 'Cors.' Nos. 3, 4 and 5 are 4x4 in. post firmly set and properly mkd. Line 3-4 was found to be N. 43°26' E., 751.50 ft. instead of N. 43°25' E., 746.46 ft. as approved. Line 4-5 was found to be S. 45°00'30" E., 595.67 ft. instead of S. 45°39' E., 592.1 ft. as approved.

Sur. No. 2572A Copper Nugget lode: Cors. Nos. 1 and 2 are destroyed. Cors. Nos. 3 and 4 are 4x4 in. post firmly set and properly mkd. Lines 1-2, 2-3 and 3-4 firmly set and properly mkd.

are shown as approved. Sur. No. 2572A Sleeper lode: Cor. No. 2 pile of rock, post has been destroyed. Cor. No. 3 reset by owners with a 4x4 in. post firmly set, no markings. Cors. Nos. 4 and 5 destroyed, reset by owners with 1 in. iron pin 12 ins. above ground, no markings. Line 2-3 was found to be N. 29°07' E., 942.30 ft., instead of N. 29°04' E., 933.60 ft. as approved. Line 3-4 was found to be N. 30°12' W., 174.15 ft. instead of N. 30°32' E., 177.0 ft. as approved. Line 4-5 was found to be N. 28°42' E:, 369.86 ft. instead of N. 28°22' E., 370.3 ft. as approved.

Sur. No. 2465 Queen Lil lode: Cor. No. 1 destroyed, reset by owners with a 4x4 in. post 3 ft. above ground, firmly set and properly mkd. Cors. Nos. 2 and 3 rocks firmly set and properly mkd. Line 1-2 was found to be S. 17°20'30" E., 595.18 ft. instead of S. 17°40' E., 600.00 ft. as approved. Line 2-3 was found to be N. 83°18' E., 1498.34 ft. instead of N. 83°04' E., 1500.00 ft. as approved.

ft. as approved.

FIELD ASSISTANTS Capacity

Name

en the ground.

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

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CERTIFICATE OF SURVEYOR

	August 5 , 19 64
Ι, _	OSCAR T. SMITH
Mineral	Surveyor, hereby certify upon honor that in pursuance of an order received from the office
adastra	l Engineer , at Phoenix, Arizona
dated _	March 20, 1961 , I have faithfully and correctly executed the survey of
the min	ing claim of Kennecott Copper Corporation ,
known	as the Lava No. 1 (Lode, placer, or mill site)
situate	n Mineral Creek Mining District, Pinal County, Sec. 12
т3	S. , R. 13 E. , G. & S. R. Meridian, Arizona , and (State)
designa execute	ed as Survey No4559, which is represented in the foregoing field notes as having been by me and under my direction, and that said survey has been made in strict conformity with said order,
the Mar	ual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner d in the foregoing field notes, and I do further certify that the labor expended and improvements made
upon or	for the benefit of thelode location(s) embraced in the said mining claim by
portion	(s) or <u>its</u> grantors are fully stated in my report therein, and that the character, ocation, and itemized value thereof are specified therein with particularity and full detail, and that no of, or interest in, said labor and improvements so credited to this claim has been included in the estimate
of expe	iditures upon any other claim.
·G	lobe, Arizona Oscon Musello (Place)
	Bureau of Land Management, Arizona State Offic
	(Office)
The	Phoenix, Arizona October 6, 19 64 (Place) (Date) foregoing field notes of mineral survey No. 4559, in Section 12
	T. 3 South , R. 13 East , Gila & Salt River Meridian,
under o	a, executed byOscar T. Smith, Mineral Surveyor, rder datedMarch 20, 1961, having been critically examined and the necessary ons made prior to their certification by the surveyor, the field notes and the survey therein described by approved.
are nere	
	Naymond C. Cleghorn
	Acting State Director (Title)
	CERTIFICATE OF TRANSCRIPT
I ci is a true	RTIFY that the foregoing transcript of field notes of the above described mineral survey No.
	The state of the s

(Title)

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